# VENKATA MUKUND KASHYAP YEDUNUTHALA

#### **Student**

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## PERSONAL INFORMATION

NameVenkata Mukund Kashyap YedunuthalaAddressHalsbrücker Str. 12, 09599 Freiberg.Birthday, -Place16.07.1997 in Warangal, Telangana, India.

Citizenship India

# **EDUCATION**

## M.Sc. Computational Materials Science

### **Technische Universität Bergakademie Freiberg**

# 10/2019 - Present

· Expected completion in Winter, 2023.

## Bachelor of Engineering in Mechanical Engineering

## **Chaitanya Bharathi Institute of Technology**

First class with distinction

GPA **8.6** / 10

# **PROJECTS**

# Modeling of radiative heat-exchange using finite element method

Solid mechanics | Finite Element Analysis | Python

- Complete implementation of finite element model and Newton solver in Python using NumPy, matplotlib.
- Documented using Sphinx module.

## Gradient Boosting Machine with Local Regression to predict material properties.

Machine Learning | Ensemble methods | Python

- Implemented in Python using NumPy, Matplotlib.
- Accessed REST API of The Materials Project for data and documented using Sphinx.

#### Image captioning using reinforcement learning

Machine Learning | Deep Reinforcement Learning | Python

- · A team project to generate captions for images using policy network reward model.
- · Implemented in Python using TensorFlow, Pandas, Jupyter and Matplotlib.

## Image processing using MPI

High Performance Computing | Parallel Processing | C++

- Implemented in C++ to perform a scalability study on university's high performance computing cluster.
- · Documented using Doxygen.

## CERTIFICATIONS

# **Goethe Zertifikat B1**

German language certificate issued by Goethe Institute.

## Deutsch Kommunikation in Studium und Beruf

TU Bergakademie Freiberg, 2022. Soft skills course in German.

# **SKILLS Programming Python** C++ Kotlin Matlab Libraries / Modules NumPy MPI Matplotlib **Sphinx CMake** OpenMP Doxygen **Others** Git LaTeX Markdown **LANGUAGES English** German Telugu Proficient (C1) Advanced (B2) Native **ACHIEVEMENTS PRACE Summer of HPC 2021** Selected to participate in Partnership for Advanced Computing in Europe's initiative called Summer of HPC to enhance skills in High Performance Computing. **STRENGTHS Teamwork Flexibility PASSIONS Gaming Photography Model United Nations**